



CERTIFICATE NUMBER
EFFECTIVE DATE
EXPIRY DATE
ABS TECHNICAL OFFICE

24-0057170-PDA
30-Aug-2024
29-Aug-2029
Houston ESD - Piping

CERTIFICATE OF Product Design Assessment

This is to certify that a representative of this Bureau did, at the request of

DAFO FOMTEC AB

located at

PO BOX 683, VINDKRAFTSVAGEN 8, , TYRESO, Sweden, 13526

assess design plans and data for the below listed product. This assessment is a representation by the Bureau as to the degree of compliance the design exhibits with applicable sections of the Rules. This assessment does not waive unit certification or classification procedures required by ABS Rules for products to be installed in ABS classed vessels or facilities. This certificate, by itself, does not reflect that the product is Type Approved. The scope and limitations of this assessment are detailed on the pages attached to this certificate.

Product: Fire Extinguishing System, Components of Foam Fire Extinguis...
Model: 12-3355-XX
Endorsements:
Tier: 2 - PDA Issued

This Product Design Assessment (PDA) Certificate remains valid until 29/Aug/2029 or until the Rules and/or Standards used in the assessment are revised or until there is a design modification warranting design reassessment (whichever occurs first).

Acceptance of product is limited to the "Intended Service" details prescribed in the certificate and as per applicable Rules and Standards.

This Certificate is valid for installation of the listed product on ABS units which exist or are under contract for construction on or previous to the effective date of the ABS Rules and standards applied at the time of PDA issuance. Use of the Product for non-ABS units is subject to agreement between the manufacturer and intended client.

American Bureau Of Shipping

Electronically Signed by:

John Vincent Bog-Acon Ulep
Senior Principal Engineer

NOTE: This certificate evidences compliance with one or more of the Rules, Guides, standards or other criteria of ABS or a statutory, industrial or manufacturer's standards. It is issued solely for the use of ABS, its committees, its clients or other authorized entities. Any significant changes to the aforementioned product without approval from ABS will result in this certificate becoming null and void. This certificate is governed by ABS Rules 1-1-A3/5.9 Terms and Conditions of the Request for Product Type Approval and Agreement (2010)

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Fax:
Email: info@fomtec.com
Web: www.fomtec.com

Tier: 2 - PDA Issued

Product: Fire Extinguishing System, Components of Foam Fire Extinguishing System
Model: 12-3355-XX
Endorsements:

Intended Service:

Marine and Offshore Applications - PFAS free foam concentrate intended for use on hydrocarbon fuel fire and polar solvents with sea water for low and medium expansion discharge devices.

Description:

Fomtec Enviro 3x3 Ultra contains no PFAS (Fluorine compounds) designed for extinguishing hydrocarbon fuel and Polar solvents fires.

Rating:

Mixing ratio: 3X3%
Specific Gravity at 20°C : 1.035 ± 0.01 g/ml
Viscosity at 20°C: Pseudoplastic
PH at 20°C: 6.5 - 8.5
Freezing point: -12°C
Recommended storage temperature: -11°C -v55°C
Suspended sediment: <0.1%
Surface Tension 28.0mN/m
The product is supplied in 25 litres, 5-gallon pails (20 litres), 55-gallon drums (200 litres), and 265-gallon totes (1000 litres) in IBC containers.
Larger bulk supply is available against special request

Service Restriction:

- Unit Certification is not required for this product. If the manufacturer or purchaser request an ABS Certificate for compliance with a specification or standard, the specification or standard, including inspection standards and tolerances, must be clearly defined.
- This is for low-expansion foam concentrate for surface application to water-immiscible fuel only.
- Different foam concentrate types shall not be mixed in a low-expansion foam system. Foam concentrates of the same type from different manufacturers shall not be mixed unless they are tested by recognized Laboratories.
- Foams should not be used in contact with electrical equipment or with chemical products that can react with water.

Comments:

1. The Manufacturer has provided a declaration about the control of, or the lack of Asbestos in this product.
2. It is recommended to avoid contact of the foam concentrate with skin. In case of eye splashes, wash with plenty of water.
3. In case of ingestion, do not induce vomiting, drink water and seek medical advice.
4. Foam fire firefighting system arrangement using DAFO FOMTEC AB shall be reviewed separately.

Notes/Drawing/Documentation:

Drawing No. Fomtec Enviro 3x3 Ultra Fluorine free alcohol resistant foam concentrate, Revision: -
Drawing No. MED Mod B Enviro 3x3 Ultra MED176523XP, Revision: -,
Drawing No. PDA Application Fomtec Enviro 3x3 Ultra 12-3355-XX, Revision: -
Drawing No. IMO 1312 Test of Fomtec Enviro 3x3 Ultra Acetone, Revision: -
Drawing No. MED Mod D Enviro 3x3 Ultra MED040923XW_001, Revision: -
Drawing No. Analysis Report Eurofins Environment Testing Sweden AB - Envri 3x3 ultra, Revision: -
Drawing No. IMO 1312 Test of Fomtec Enviro 3x3 Ultra Heptane, Revision: -

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Tier: 2 - PDA Issued

Terms of Validity:

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STANDARDS

ABS Rules:

2024 Rules for Conditions of Classification: 1A-1-4/7.7, 1A-1-A3 and A4, which covers the following:

2024 Rules for Building and Classing Marine Vessels: 4-7-3/5.7.1, 4-7-3/15.3.2 ii), 5C-1-7/27

2024 Rules for Conditions of Classification - Offshore Units and Structures: 1B-1-4/9.7, 1B-1-A2 and A3, which covers the following:

2024 Rules for Building and Classing Mobile Offshore Units: 5-2-3/5.3

National:

NA

International:

IMO MSC.1/Circ.1312.

Government:

NA

EUMED:

MED/3.58, MED3.59

OTHERS:

NA